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Please amend the subject application as follows:

**In the Claims:**

Please amend claims 1-4 as follows:

--1. (Amended) An isolated adipose-derived stem cell which is substantially free of mature adipocytes and which can differentiate into two or more developmental phenotypes selected from the group consisting of adipogenic, chondrogenic, cardiogenic, dermatogenic, hematopoetic, hemangiogenic, myogenic, nephrogenic, neurogenic, neuralgiagenic, urogenitogenic, osteogenic, pericardiogenic, peritoneogenic, pleurogenic, splanchogenic, and stromal developmental phenotypes. --

B1

--2. (Amended) A substantially homogeneous population of adipose-derived stem cells, comprising a plurality of the stem cell of claim 1. --

--3. (Amended) The adipose-derived stem cell of claim 1 or the population of claim 2 which can be cultured for at least 15 passages without differentiating . --

--4. (Amended) The adipose-derived stem cell of claim 1 or the population of claim 2 which is human . --

Please add claims 139-146 as follows.

--139. (New) An isolated, adipose-derived multipotent cell that differentiates into cells of two or more mesodermal phenotypes. --

B2

--140. (New) An isolated adipose-derived multipotent cell that differentiates into cells of two or more phenotypes selected from the group consisting of mesodermal, endodermal and ectodermal phenotypes. --

--141. (New) The isolate adipose-derived multipotent cell of claim 140 that that differentiates into cells of endodermal or ectodermal phenotypes. --

--142. (New) A fraction of an adipose tissue sample from a subject, said fraction substantially free of adipocytes and enriched for multipotent cells that differentiate into cells of two or more phenotypes selected from the group consisting of mesodermal, endodermal and ectodermal phenotypes. --

--143. (New) The fraction of claim 142 that differentiates into cells of endodermal or ectodermal phenotypes. --

B3

--144. (New) A method for obtaining an adipose-derived fraction enriched for multipotent cells that differentiate into cells of two or more phenotypes selected from the group consisting of mesodermal, endodermal and ectodermal phenotypes, comprising treating a sample of adipose tissue from a subject to remove adipocytes, forming an adipose-derived fraction enriched for multipotent cells that differentiate into cells of two or more phenotypes selected from the group consisting of mesodermal, endodermal and ectodermal phenotypes. --

--145. (New) The method of claim 144, wherein the fraction is enriched for multipotent cells that differentiate into cells of endodermal or ectodermal phenotypes. --